

small; annual bearer. Very good ornamental.

The following were developed by C. P. Close, University of Maryland, College Park, Maryland 20742, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589017. *Malus domestica* Borkh.

C.P. Close. Comments:: Fruit: size medium to large, 70-85 mm; skin 70-100% red, striped attractive; shape round-conic; flesh soft, cream-colored; flavor sub-acid; eating quality fair; harvest season early, early to mid-August. Tree: medium productivity; annual cropping; fruits drop as they ripen; very early, red, soft.

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PI 589018. *Malus domestica* Borkh.

Cimitiere. Comments:: Fruit: Cider type; size small, 55-65 mm; skin yellow-green, 5% pink blush; shape round-oblate; flesh firm, cream-colored exposed flesh oxidizes quickly; flavor sub-acid, stringent, eating quality poor; harvest season late October. Tree: fruits born in clusters; extremely biennial cropping; medium yields.

The following were developed by Arnold Arboretum, The Arborway, Jamaica Plain, Massachusetts 02130, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589019. *Malus baccata* (L.) Borkh.

Columnaris. Pedigree - Arnold Arboretum received in 1927 as grafts mistakenly of *M. orthocarpa* from Royal Botanic Gardens, Kew, Richmond, Surrey, England. Named and introduced in 1940 by Arnold Arboretum. Comments:: Flowers: single; large 40 mm; white; attractive. Fruit: very small, 15 mm; yellow to orange. Tree: very columnar growth habit; annual bearing. Ornamental flowering crab, columnar tree.

The following were developed by Cornell University, New York Agr. Exp. Station, Geneva, New York 14456, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

PI 589020. *Malus domestica* Borkh.

Sweet McIntosh. Pedigree - Way, R.D. 1971. Apple Cultivars. NYSAES Search Vol. 1. No. 2 pg. 57; Brooks, R.M. and H.P. Olmo. 1972. Register of New Fruit and Nut Varieties. 2nd Ed. p. 107. Comments:: Fruit: size large, up to 80 mm; skin 90% red, striped, scarfskin, heavy bloom; shape oblate, symmetrical; flesh semifirm, nearly white; flavor sweet, aromatic, does not resemble McIntosh; eating quality good; harvest season mid- October, 10 days after Delicious. Tree: large, vigorous; moderately productive; biennial cropping; diploid (Proc. Am. Soc. Hort. Sci. 53:197. 1949). Sweet, does not resemble McIntosh. R.D. Way, 1993.

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